

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of: Yu et al.

Attorney Docket No.: PF160D2

Application Number: Unassigned

Group Art Unit: Unassigned

Filed: Herewith

Examiner: Unassigned

Title: Colon Specific Genes and Proteins

**POWER OF ATTORNEY BY ASSIGNEE OF ENTIRE INTEREST/  
REVOCATION OF PRIOR POWER OF ATTORNEY**

Commissioner for Patents  
Washington, D.C. 20231

Sir:

Human Genome Sciences, Inc., organized and existing under the laws of the State of Delaware, having its principal place of business at 9410 Key West Avenue, Rockville, Maryland 20850, is assignee of record of the entire right, title and interest for the above-identified application (which is a divisional of Application No. 09/224,110, filed March 31, 1998, which is a divisional of Application No. 08/469,667, filed June 6, 1995) by virtue of an assignment recorded in the U.S. Patent and Trademark Office on April 14, 1996, at Reel 7942, Frame 0162, in grandparent Application No. 08/469,667.

The undersigned has reviewed all the documents in the chain of title of the patent application identified above and, to the best of undersigned's knowledge and belief, title is in the assignee identified above.

The assignee, Human Genome Sciences, Inc., hereby revokes all previous powers of attorney or authorizations of agent given in the above-captioned application.

The assignee, Human Genome Sciences, Inc., hereby appoints the Practitioners at **Customer Number 22195** as its attorneys or agents with full power of substitution, association, and revocation to prosecute the application identified above, including any

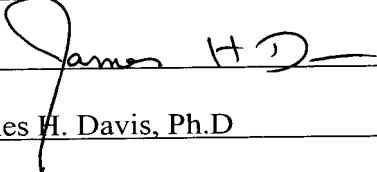
continuation or divisional applications, and to transact all business in the U.S. Patent and Trademark Office connected therewith.

The assignee also requests that the correspondence address be changed to  
**Customer No. 22195.**

The undersigned, whose title is supplied below, is empowered to sign this document on behalf of the assignee.

On behalf of Human Genome Sciences, Inc.

For: Human Genome Sciences, Inc

Signature: 

By: James H. Davis, Ph.D

Title: Senior Vice President and General Counsel

Date: 11/19/01

Enclosures  
KKH/JLK/SA/lcc

## ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, each of the undersigned, Guo-Liang Yu of 13524 Straw Bale Lane, Darnestown, Maryland 20878 and Craig A. Rosen of 22400 Rolling Hill Rd., Laytonsville, Maryland 20882, hereby sell, assign and transfer to HUMAN GENOME SCIENCES, INC. ("assignee") having a place of business at 9410 Key West Avenue, Rockville, Maryland 20850-3338 its successors, assigns and legal representatives, their entire right, title and interest for the United States and all other countries, in and to the improvements(s) known as:

### COLON SPECIFIC GENES AND PROTEINS

for which application(s) for United States Letters Patent has (have) been executed by the undersigned on August 28, 1995 and September 5, 1995 also known as United States Application Serial No. 08/469,667, filed June 6, 1995, and is entitled:

### COLON SPECIFIC GENES AND PROTEINS

and in and to said application and all divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent which have been or shall be filed in the United States and all other countries on any of said improvements, and in and to all original and reissued patents which have been or shall be issued in the United States and all other countries on said improvements (hereinafter collectively, the "Patent Rights").

The undersigned further agree that said Assignee may apply for and receive Letters Patent for said improvements in its own name; and, when requested, without charge to but at the expense of Assignee, its successors, assigns and legal representatives, to carry out in good faith the intent and purpose of this assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue and all other patent applications on all such improvements; execute all rightful oaths, assignments, powers of attorney and other papers; communicate to said Assignee, its successors, assigns and representatives all facts known to the undersigned relating to said improvements and the history thereof; and do everything possible which said Assignee, its successors, assigns or representatives shall consider desirable for aiding in securing and maintaining proper patent protection for said improvements and for vesting title to said improvements and all applications for patent and all patents on said improvements in Assignee, its successors, assigns and representatives.

The undersigned hereby represent and warrant to Assignee, its successors, assigns and representatives that no assignment, grant, mortgage, license or other right or agreement affecting the rights and property herein conveyed has been made to others by the undersigned and that full right to convey the same as expressed herein is possessed by the undersigned.

The undersigned hereby grant power to John N. Bain (Reg. No. 18,651); John G. Gilfillan, III (Reg. No. 22,746); Elliot M. Olstein (Reg. No. 24,025); Raymond J. Lillie (Reg. No. 31,778); Charles J. Herron (Reg. No. 28,019); William Squire (Reg. No. 25,378); Gregory D. Ferraro (Reg. No. 36,134); and Robert H. Benson (Reg. No. 30,446) to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

This Assignment is executed by the undersigned on the date(s) opposite their signature(s):

Inventor's Signature:   
Guo-Liang Yu

Date: 2/21/96

Inventor's Signature:   
Craig A. Rosen

Date: 2/21/96

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DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

COLON SPECIFIC GENES AND PROTEINS

the specification of which [ ] is attached hereto or X was filed on June 6, 1995 as Application Serial No. 08/469,667 and was amended on \_\_\_\_\_ (if applicable)

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the patentability of this application in accordance with Title 37, Code of Federal Regulations, Section 1.56(a).

I hereby claim foreign priority benefits under Title 35, United States Code, Section 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed. Prior Foreign Application(s):

(Number)	(Country)	(Day/Month/Year Filed)	Priority Claimed	
			Yes	No
			<input type="checkbox"/>	<input type="checkbox"/>

I hereby claim the benefit under Title 35, United States Code, Section 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, Section 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, Section 1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

_____ (Application Serial No.)	_____ (Filing Date)	_____ (Status - patented, pending, abandoned)
_____ (Application Serial No.)	_____ (Filing Date)	_____ (Status - patented, pending, abandoned)

I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith: John N. Bain (Reg. No. 18,651); John G. Gilfillan, III (Reg. No. 22,746); Elliot M. Olstein (Reg. No. 24,025); Raymond J. Lillie (Reg. No. 31,778); Charles J. Herron (Reg. No. 28,019); William Squire (Reg. No. 25,378); and Gregory Ferraro (Reg. No. 36,134) of Carella, Byrne, Bain, Gilfillan, Cecchi, Stewart & Olstein; Robert H. Benson (Reg. No. 30,446) of Human Genome Sciences, Inc., 9410 Key West Ave, Rockville, Maryland 20850-3338. Address correspondence and telephone calls to Elliot M. Olstein, Esq., c/o Carella, Byrne, Bain, Gilfillan, Cecchi, Stewart & Olstein, 6 Becker Farm Road, Roseland, NJ 07068 - (201) 994-1700.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of sole or first inventor: Guo-Liang Yu

Inventor's signature:  Date: 8/28/95

Residence: 13524 Straw Bale Lane, Darnestown, Maryland 20878

Citizenship: Chinese

Post Office Address: Same

Full name of second joint inventor: Craig Rosen

Full name of second joint inventor: Craig Rosen

Inventor's signature: Craig Rosen Date: 7/5/95

Residence: 22400 Rolling Hill Rd., Laytonsville, Maryland 20882

Citizenship: USA

Post Office Address: Same

Angle	100%	90%	80%	70%	60%	50%	40%	30%	20%	10%	0%
100%	1.0000	0.9999	0.9998	0.9997	0.9996	0.9995	0.9994	0.9993	0.9992	0.9991	0.9990
90%	0.9999	1.0000	0.9999	0.9998	0.9997	0.9996	0.9995	0.9994	0.9993	0.9992	0.9991
80%	0.9998	0.9999	1.0000	0.9999	0.9998	0.9997	0.9996	0.9995	0.9994	0.9993	0.9992
70%	0.9997	0.9998	0.9999	1.0000	0.9999	0.9998	0.9997	0.9996	0.9995	0.9994	0.9993
60%	0.9996	0.9997	0.9998	0.9999	1.0000	0.9999	0.9998	0.9997	0.9996	0.9995	0.9994
50%	0.9995	0.9996	0.9997	0.9998	0.9999	1.0000	0.9999	0.9998	0.9997	0.9996	0.9995
40%	0.9994	0.9995	0.9996	0.9997	0.9998	0.9999	1.0000	0.9999	0.9998	0.9997	0.9996
30%	0.9993	0.9994	0.9995	0.9996	0.9997	0.9998	0.9999	1.0000	0.9999	0.9998	0.9997
20%	0.9992	0.9993	0.9994	0.9995	0.9996	0.9997	0.9998	0.9999	1.0000	0.9999	0.9998
10%	0.9991	0.9992	0.9993	0.9994	0.9995	0.9996	0.9997	0.9998	0.9999	1.0000	0.9999
0%	0.9990	0.9991	0.9992	0.9993	0.9994	0.9995	0.9996	0.9997	0.9998	0.9999	1.0000

Docket No.: 325800-435